Student Name: _____ Date: _____

What Letter Am I?

Graph each pair of linear equations shown below and write the coordinates of the point of intersection.

1.
$$x = -2$$
$$y = 0$$
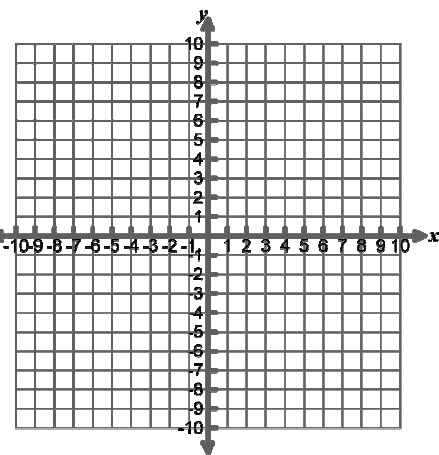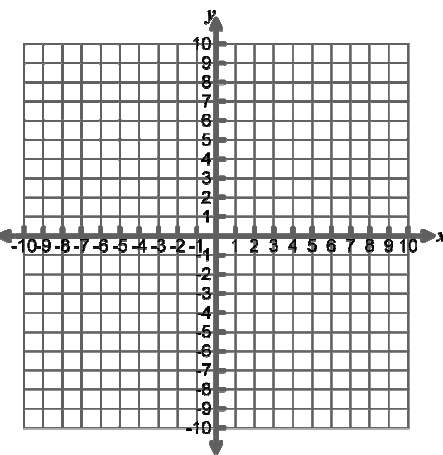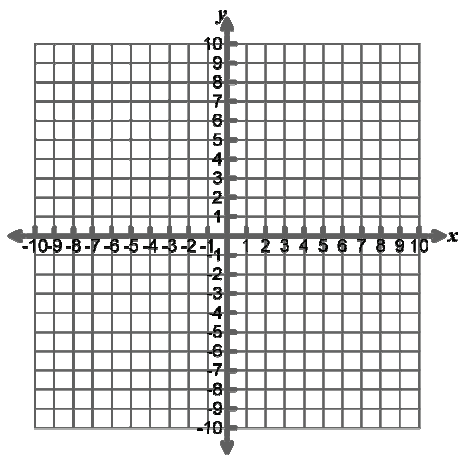
Point of Intersection

(_____, _____)

2.
$$x = -2$$
$$y = 4$$

Point of Intersection

(_____, _____)

3.
$$y = -x + 2$$
$$y = x + 2$$

Point of Intersection

(_____, _____)
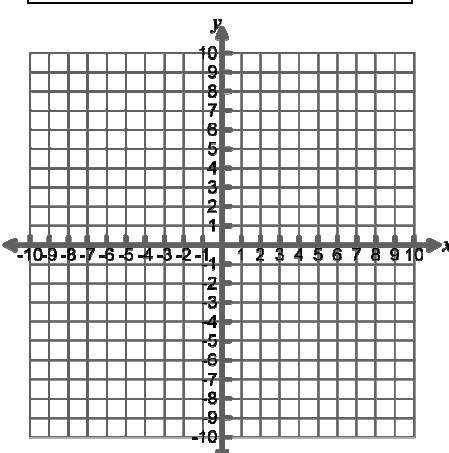

4.
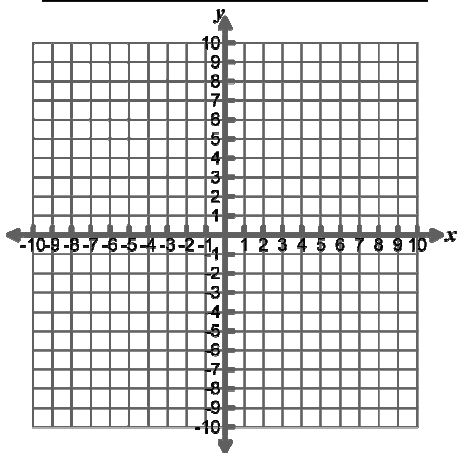$$y = 4$$
$$y = x + 2$$

Point of Intersection

(_____, _____)
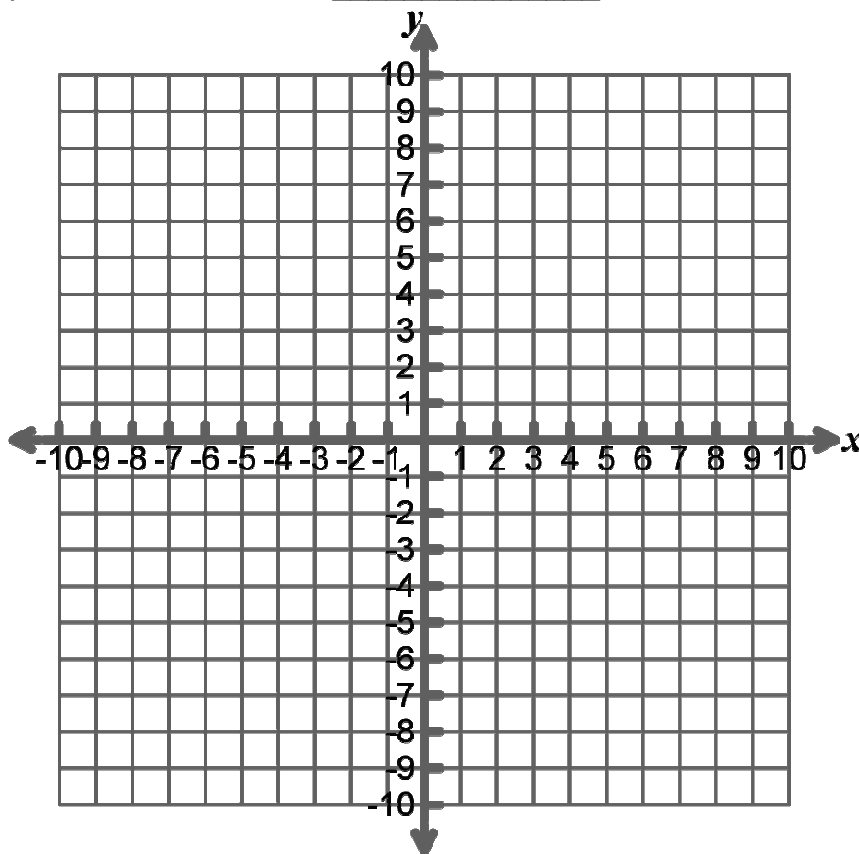
5.
$$x = 2$$
$$y = 0$$

Point of Intersection

(_____, _____)

Record the coordinates of the points of intersection for each graph in the table below.

Graph	Point of Intersection
1	(,)
2	(,)
3	(,)
4	(,)
5	(,)

Plot each coordinate on the graph below and connect them in order from 1 to 5. What letter is created after the points are connected? _____

Communicating About Mathematics
Could two lines have more than one point of intersection? Explain your reasoning.

_____

_____

_____

_____

_____